



## Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

ATTY. DOCKET NO.

NAGEL 202

SERIAL NO.

09/577 533

APPLICANT

ROBERT NAGEL

FILING DATE

5/24/00

GROUP

2766 3621

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
PE	6 0 1 2 8 9 3 7	2/22/00	TATEBAYASHI, ETAL	380/25		10/9/96
	6 0 2 6 1 6 7	2/15/00	AZIZ	380/28		5/23/97
	6 0 0 9 1 1 7 1	12/28/94	CHINKEW	380/5		6/24/97
	5 9 9 1 3 9 9	11/23/94	GRAUNKE ETAL	380/4		12/18/97
	5 9 4 8 1 3 6	4/7/94	SMYERS	380/4		7/30/97
	5 9 1 5 0 1 8	6/22/94	AUGSMITH	380/4		11/5/96
	5 9 1 3 5 4 3	6/22/94	CURIEL	283/4		7/29/96
	5 6 0 1 6 8 3	2/11/97	MARTIN	156/277		1/25/96
	5 9 4 9 0 4 2	9/7/94	DIETZ, ETAL	235/375		1/21/97
	5 9 2 8 4 7 1	7/27/94	HOWLAND, ETAL	162/110		9/16/94

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
PE EP	A2 0 2 0 3 4 9 9	12/3/86	EUROPEAN			✓
GB A	1 4 8 9 0 8 4	10/14/77	GRANT BRITAIN			✓
EP A1	0 3 8 8 0 9 0	9/14/90	EUROPEAN			✓
JP	6 1 4 1 3 9 7		JAPAN			✓
UK	1 1 3 8 0 1 1	12/27/68	UNITED KINGDOM			✓

OTHER DOCUMENTS (Including Author, Title, Date\*, Relevant Pages, Place of Publication\*\*)

PE	RIVEST, ETAL; "A Method for Obtaining Digital Signatures..."; Communications of ACM 21(2): 120-126 (Feb 1978)
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EXAMINER

*Michael June 8*

DATE CONSIDERED

7/31/2003

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

ATTY. DOCKET NO.

NAGEL 202

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09/577,538

APPLICANT

ROBERT NAGEL

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE (Priority)
RE	2021141	11/19/39	BOYER			5/1/33
	5118526	6/2/92	ALLEN ET AL	427/161		3/11/91
	45113056	4/23/85	VERNOIS ET AL	428/244		3/23/83
	5946103	8/31/94	CURRY	358/405		1/24/98
	5453605	1/26/95	HECHT ET AL	235/444		12/22/93
	5193853	3/16/93	WICKER	283/85		4/3/92
	5018176	7/5/91	WICKER	283/67		1/18/89
	5315112	5/24/44	HARRIS	250/235		12/10/42
	5706099	1/6/98	CURRY	358/248		1/6/98
	5696604	12/9/97	CURRY	358/459		1/4/95
	5410414	4/25/95	CURRY	358/248		10/28/93

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
RE	UK	2224240	5/2/90	UNITED KINGDOM			✓	
	WO	9725177						
	EP	0660270	6/28/95	EUROPEAN				✓
	EP	0328320	8/16/81	EUROPEAN			✓	

OTHER DOCUMENTS (Including Author, Title, Date\*\*, Relevant Pages, Place of Publication\*\*)

EXAMINER: Robert Nagel

7/31/2003

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

O I P E JCS9  
MAY 19 2003  
PATENT & TRADEMARK OFFICE

Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(h))

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09/575339

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
P/E	5710636	1/20/98	CURRY	358/248		6/5/95
	6061665	5/9/00	BAHREMAN	705/40		6/6/97
	5396559	3/7/95	MCGREW	1380/54		8/24/90
	6039357	3/21/00	KENDRICK	283/93		1/18/92
	5995638	11/30/99	AMIDROR ETAL	382/100		7/5/96
	6014453	1/1/00	SONODA ETAL	382/137		1/6/96
	6030655	2/29/00	HANSMIRE ETAL	427/1		6/3/99
	5289547	2/22/94	LIGAS ETAL	382/7		12/6/91
	4507349	3/26/85	FROMSON ETAL	428/145		5/16/83
	4767205	8/30/88	SCHWARTZ ETAL	356/71		1/28/86
	4157784	6/12/79	GROTTREP ETAL	1235/491		6/9/78

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

P/E	"DSS: specifications of a signature algorithm". Nat'l Institute of Standards & Technology. Draft, August 1991.

EXAMINER

*William L. Surr*

DATE CONSIDERED

7/31/2003

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.20(b))

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1577

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE & MONTH
RE	3391479	7/4/68	BUZZELL ETAL			12/10/65
	3880706	4/24/75	WILLIAMS	162/103		8/24/73
	4247318	11/27/81	LEE ETAL	154/163		1/30/79
	4186943	2/5/80	LEE	283/7		9/23/77
	4445039	4/24/84	YEW	283/492		7/6/81
	4652015	3/24/87	CRANE	283/91		12/5/85
	4552617	11/12/85	CRANE	162/103		6/13/84
	4437935	3/20/84	CRANE	162/103		6/3/81
	5393099	2/28/15	D'AMATO	283/91		5/21/93
	5602381	2/11/97	HOSHINO ETAL	235/493		5/16/94
	3701165	10/31/72	HUDDLESTON	12/243R		4/24/71

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

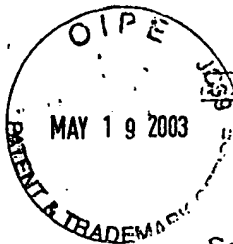
EXAMINER

*Michael J. Moore*

DATE CONSIDERED

7/31/2003

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1500-108 (Rev. 11-01)

FORM 6-1

6-17

## Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.38(b))

ATTY. DOCKET NO.

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09/577

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ROBERT NAGEL

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
P.R.	4 8 2 0 9 1 2	4/1/89	SAMYN	1235/449		9/19/86
	5 3 2 5 1 6 7	6/28/94	MELEN	1356/71		5/11/92
	3 9 4 2 1 5 4	3/2/76	AKAMI, ETAL	1340/1463		6/28/74
	4 5 1 4 0 8 5	4/30/89	KAYE	1356/71		6/28/82
	5 5 9 1 5 2 7	1/7/97	LU	1428/411		11/2/94
	5 5 8 0 9 5 0	12/3/96	HARRIS, ETAL	1528/350		10/13/94
	5 5 4 9 9 5 3	8/27/96	LI	1428/611		4/29/93
	4 4 3 4 0 1 0	2/28/84	ASH	1106/291		10/26/81
	4 7 0 4 3 5 6	11/3/87	THONAR	1435/7		3/27/84
	4 7 7 9 8 9 8	10/25/88	BERNING, ETAL	1283/58		8/21/87
	4 8 3 8 6 4 8	6/13/89	PHILLIPS, ETAL	1350/166		5/3/88

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

P.R.	COX, et al. "Secure Spread Spectrum"; NEC Research Inst Tech Report 95-10, 1995
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EXAMINER

DATE CONSIDERED

7/31/2003

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(2-1/2004 Edition)

FORM 6-1

1-17

## Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.98(b))

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NAGEL 202

SERIAL NO.

09/577,536

APPLICANT

ROBERT NAGEL

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2756 3621

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE & APPROPRIATE
P.R.	4930866	6/5/90	BERNING ETAL	1320/320		6/10/88
	5059245	10/22/91	PHILLIPS ETAL	1104/22		9/26/85
	5135812	8/4/92	PHILLIPS ETAL	1428/403		3/27/91
	5171363	12/15/92	PHILLIPS ETAL	1104/22R		6/21/91
	5214530	5/25/93	COOMBS ETAL	359/359		11/27/91
	6038016	3/14/00	JUNG ETAL	1356/71		7/26/99
	5966205	10/12/99	JUNG ETAL	1356/71		7/1/97
	1938543	12/5/33	SANBURN			11/16/32
	2208653	7/23/40	WHITEHEAD			9/16/37
	2379443	7/3/45	KANTROWITZ			3/15/43
	3839637	6/1/74	WILLIS	1250/302		3/22/72

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

P.R.	RIVEST ETAL: "PayWord and Micro Mint..." (May 7, 1996)
	"Micro Payment Transfer Protocol (MPTP)" Version 0.1 (22-Nov-95) et seq. <a href="http://www.w3.org/pub/WWW/TR/WD-mptp">http://www.w3.org/pub/WWW/TR/WD-mptp</a>

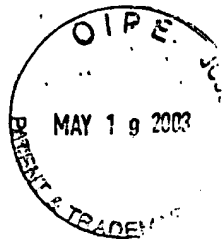
EXAMINER:

*Shirley L. L...*

DATE CONSIDERED

7/31/003

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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(37 CFR 1.98(b))

ATTY. DOCKET NO.

NAGEL 202

SERIAL NO.

09/527 5/23/03

APPLICANT

ROBERT NAGEL

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2766 3621

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23 2003  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
P.E.	4623579	11/18/86	QUON	1428	215	10/4/85
	4756557	7/12/88	KAULE ETAL	1283	85	12/23/85
	6019872	2/1/00	KURRIE	1162	140	1/20/99
	6054021	4/25/00	KURRIE ETAL	1162	140	1/20/99
	6045656	4/4/00	FOSTER ETAL	1162	140	12/21/98
	6035914	3/14/00	RAMSEY ETAL	1156	318	10/22/93
	5918436	11/16/99	PRIDDY	1283	72	11/22/96
↓	5932119	8/3/99	KAPLAN ETAL	1214	121	7/30/96
P.E.	5380047	1/10/95	MOLEE ETAL	1283	86	6/16/93
P.E.	5370763	12/6/94	CURIEL	1156	277	3/16/94

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
					YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

P.E.	Common Markup for web Micropayment Systems, <a href="http://www.w3.org/TR/WD-micropayment-Markup">http://www.w3.org/TR/WD-micropayment-Markup</a> (09-Jan-97)
P.E.	"Distributing IntProp...": OLIVIA: <a href="http://olivia.mod.lang.denison.edu/~olivia/RFC/09/">http://olivia.mod.lang.denison.edu/~olivia/RFC/09/</a>
P.E.	

EXAMINER

*M. J. Lane*

DATE CONSIDERED

7/31/2003

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## Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.90(b))

ATTY. DOCKET NO.

NAGEL 202

SERIAL NO.

09/577,533

APPLICANT

ROBERT NAGEL

FILING DATE

5/24/00

GROUP

27663627

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE
PE	5243648	9/7/93	FRANSON	380/9		9/24/93
PE	411996115	4/22/80	WACKS ETAL	427/431		2/18/77
	4059471	11/21/77	HAIGH	156/214		11/13/75
	4178404	12/11/79	ALLEN ETAL	428/209		12/6/78
	4121003	10/17/78	WILLIAMS	428/40		4/22/77
	5464690	11/7/95	BOSWELL	428/334		4/4/94
	4913858	4/3/90	MIKKA ETAL	624/13		10/3/88
	6028936	2/22/00	HILLIS	380/23		1/16/96
	6021202	2/1/00	ANDERSON ETAL	380/25		12/19/97
	6009174	12/23/94	TATEBAYASHI ETAL	380/21		10/27/97

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)


EXAMINER

*Alisa June*

DATE CONSIDERED

7/31/2003

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## Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
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(37 CFR 1.98(b))

ATTY. DOCKET NO.

NAGEL 202

SERIAL NO.

09/577,533

APPLICANT

ROBERT NAGEL

FILING DATE

5/24/00

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
P.E.	5 3 7 5 1 7 0	12/20/94	SHAMIR	380/30		4/15/93
	5 2 6 3 0 8 5	11/16/93	SHAMIR	380/30		11/13/90
	4 4 0 5 8 2 9	9/20/83	RIVEST, ETAL	1178/221		12/15/77
	5 6 0 0 7 2 5	2/4/97	RUEPPEL, ETAL	380/30		12/15/94
	5 6 0 4 8 0 4	2/18/91	MICALI	380/25		1/23/85
	5 1 6 6 9 7 8	11/24/92	QUISQUATER	380/430		2/21/91
	6 0 0 2 7 7 2	12/14/94	SAITO	380/49		4/2/97
	6 0 6 5 1 1 9	5/16/00	SANDFORD, ETAL	713/200		5/30/97
	5 5 9 2 5 4 9	1/7/97	NAGEL, ETAL	380/4		6/15/95
	5 3 9 4 4 6 9	2/26/95	NAGEL, ETAL	380/4		2/18/94
4	6 0 4 4 4 6 3	3/28/00	KANDA, ETAL	713/168		8/25/97

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)


EXAMINER

DATE CONSIDERED

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## Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
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SERIAL NO.

09/577,533

APPLICANT

ROBERT NAGEL

FILING DATE

5/24/00

GROUP

3621

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE & APPROPRIATE
P/N	5926551	7/20/94	DWORK, ETAL	380/51		12/28/95
	5745574	4/28/96	MUFTIC	380/23		12/15/95
	52311668	7/27/93	KRAVITZ	380/28		7/26/91
	4995081	2/19/91	LEIGHTON, ETAL	380/23		11/6/89
	4200770	4/29/80	HELLMAN, ETAL	178/22		9/11/77
	6041704	3/28/00	PAUSCHINGER	101/91		11/24/97
	6041731	7/31/00	BROOKNER	705/61		11/19/97
	6058384	5/2/00	PIERCE, ETAL	705/50		11/19/97
	5953426	9/14/99	WINDEL, ETAL	380/51		2/24/95
	3962539	6/8/76	EHRSAM, ETAL	178/22		2/24/75
	5422954	6/6/95	BERSON	380/51		11/4/93

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO

## OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication, etc.)


EXAMINER

Chad L. Lue...

DATE CONSIDERED

7/31/2003

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Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

(Use several sheets if necessary)

(37 CFR 1.30(b))

ATTY. DOCKET NO.

NAGEL 202

SERIAL NO.

09/577 533

APPLICANT

ROBERT NAGEL

FILED DATE

5/24/00

GROUP

3621

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILED DATE & APPROXIMATE
P/E	5 3 3 7 3 6 2	8/9/94	GORMISH ETAL	380/54		4/15/93
	5 1 6 6 9 7 8	11/24/92	QUISQUATEX	380/430		2/21/91
	5 1 1 3 4 4 5	5/12/92	WANG	380/51		2/11/91
	4 8 9 3 3 3 8	1/9/90	PASTOR	380/25		12/31/87
	4 8 7 4 7 4 7	11/7/89	LEIGHTON ETAL	380/23		3/21/88
	4 8 6 8 8 7 7	9/19/89	FISCHER	380/25		12/12/88
	4 8 5 3 9 6 1	8/1/89	PASTOR	380/21		12/10/87
	4 8 1 2 9 6 5	3/14/89	TAYLOR	380/550		8/6/88
P/E	5 3 6 7 1 4 8	11/22/94	STORCH ETAL	1235/375		3/15/94
P/E	5 2 8 3 4 2 2	2/1/94	STORCH ETAL	1235/375		2/1/94

FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO

OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)


EXAMINER

*Robert Nagel*

DATE CONSIDERED

7/31/2003

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## Section 2. Form PTO - 1449 (Modified)

FORM PTO-1440 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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(37 CFR 1.28(b))

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09/577 533

APPLICANT

ROBERT NAGEL

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILED DATE if appropriate
P.H.	4 8 1 4 5 8 9	3 21 84	SDORCH ETAL	235/375		4 18 86
	5 9 7 4 1 5 0	10 26 94	KAISH ETAL	380/25		7 6 98
	5 5 9 2 5 6 1	11 7 97	MOORE	382/103		4 11 95
	5 3 6 7 3 1 9	11 22 94	GRAHAM	347/2		7 30 92
	5 4 9 9 2 4 4	3 12 96	FRIEDMAN	380/10		5 24 95
	5 3 5 1 3 0 2	9 27 94	LEIGHTON ETAL	380/30		5 26 93
	5 5 7 4 7 9 0	11 20 96	LIANG ET AL	380/23		12 18 95
	5 4 2 6 7 0 0	6 20 95	BERSON	380/23		8 23 93
	5 4 2 0 9 2 4	4 30 95	BERSON ETAL	380/23		4 26 93
	5 3 8 4 8 4 6	11 24 95	BERSON ETAL	380/23		4 26 93
↓	5 3 8 8 1 5 8	2 7 95	BERSON	380/23		11 20 92

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OTHER DOCUMENTS (including Author, Title, Date, Relevant Pages, Place of Publication)

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## Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
(Modified) PATENT AND TRADEMARK OFFICEINFORMATION DISCLOSURE  
STATEMENT BY APPLICANT

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(37 CFR 1.20(h))

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APPLICANT

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE (if appropriate)
P/E	5 1 9 1 6 1 3 3 2 9 3	11/15/91	GRAZIANO ET AL	380/25		11/15/91
	5 1 6 3 0 9 1 1 10 4 2	11/16/90	GRAZIANO ET AL	380/25		11/16/90
	5 6 0 6 6 0 9 2 2 5 4 7	11/19/94	HOUSER ET AL	380/4		11/19/94
	4 9 8 1 3 7 0 1 1 9 1	11/29/90	DZIEWIT ET AL	380/25		11/29/90
	6 0 4 9 7 8 7 4 1 0 0	13/30/98	TAKAHASHI ET AL	705/44		13/30/98
	5 1 4 2 5 7 7 8 2 5 4 2	12/17/90	PASTOR	380/21		12/17/90
✓	5 0 7 3 9 3 5 1 2 1 7 9 1	12/17/90	PASTOR	380/30		12/17/90
P/E	4 8 1 6 6 5 5 3 2 8 8 9	12/19/86	MUSYCK ET AL	235/380		12/19/86
	4 6 3 7 0 5 1 1 3 3 7	7/18/83	CLARK	382/1		7/18/83
✓	4 6 3 0 2 0 1 1 2 1 6 8 4	2/14/84	WHITE	364/408		2/14/84

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO

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*Anna Lure*

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## Section 2. Form PTO - 1449 (Modified)

FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE (if appropriate)
P.K.	4 4 6 3 2 5 0 7 3 1 8 4	7/31/84	McNEIGHT, ETAL	1235/385		5/21/82
P.K.	4 1 5 0 7 8 1 4 2 4 7 4	4/24/74	SILVERMAN ETAL	1235/382		12/21/76
P.K.	4 8 6 4 6 1 8 4 5 8 9	4/5/89	WRIGHT, ETAL	1380/51		10/17/88
	4 9 7 2 4 1 5 1 1 2 4 0	11/20/40	SANT'ANSELMO	1380/54		2/3/89
	4 4 8 2 4 3 7 1 1 1 9 1	1/1/91	LURIOT	1382/8		1/20/88
	5 0 7 5 8 6 2 1 2 4 4 1 1	12/24/11	DOEBERL, ETAL	1395/117		12/26/89
	5 2 2 7 6 1 7 7 1 3 9 3	7/13/93	CHRISTOPHER ETAL	1235/462		12/28/89
	5 2 8 5 3 8 2 2 1 8 9 4	2/8/94	MUEHLBERGER ETAL	1344/401		2/25/91
	5 3 3 7 3 6 1 8 4 1 4	8/4/94	WANG ETAL	1380/51		6/1/92
	5 3 7 0 7 6 3 1 2 6 4 4	12/6/94	CURIEL	1156/271		3/16/94

## FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

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FORM PTO-1440  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER						ISSUE DATE	PATENTEE	CLASS	SUCCESS	AGING DATE if appropriate
PR	4	1	9	9	6	1	5	4/22/80	WACKS ETAL	427/431	2/18/77
PR	4	1	2	1	0	0	3	10/17/78	WILLIAMS	428/40	4/22/77
	5	4	2	2	9	5	4	6/6/95	BERSON	380/51	11/4/93
	5	1	1	3	4	4	5	5/12/92	WANG	380/51	12/11/91
	4	5	0	7	7	4	4	3/26/85	McFIGGANS ETAL	364/708	17/19/82
	6	0	5	2	7	8	0	4/18/00	GLOVER	713/193	17/3/97
	6	0	1	1	9	0	5	11/4/00	HUTTENLOCHER	1395/102	11/8/96
	5	9	3	3	8	2	9	8/3/99	DURST ETAL	707/10	11/8/97
	5	9	1	2	4	7	4	6/15/99	HOLLOWAY ETAL	1380/51	4/30/97
Y	5	9	3	2	1	1	9	8/3/99	KAPLAN ETAL	124/121	7/30/96

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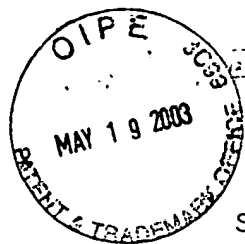
OTHER DOCUMENTS (Including Author, Title, Date, Relevant Pages, Place of Publication)

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FORM PTO-1449 U.S. DEPARTMENT OF COMMERCE  
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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
P.h	5991414	11/23/91	GARAY ETAL	380/25		9/12/97
	5944876	9/7/99	GINTER ETAL	380/4		1/8/97
	5982891	11/9/99	GINTER ETAL	380/4		11/4/97
	5943422	8/24/99	VAN WIE ETAL	380/9		3/12/96
	5933498	8/3/99	SCHNECK ETAL	380/4		11/5/97
	5629480	5/13/97	STEFIK ETAL	380/4		11/23/94
	5634012	5/21/97	STEFIK ETAL	395/239		11/23/94
	5930777	7/27/99	BARBER	705/40		5/23/97
	5857023	1/5/99	DEMERS ETAL	380/24		11/25/96
	5815657	9/29/98	WILLIAMS ETAL	395/186		4/26/96
✓	5793868	8/11/98	MICALI	380/28		11/5/96

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE if appropriate
P/E	5717757	2/10/98	MICALI	1380/25		11/19/96
	5666411	9/11/97	MICALI	1380/23		11/16/95
	5677955	10/14/97	DOGGETT ET AL	1380/24		4/7/95
	5839119	11/17/98	KRSUL ET AL	1705/34		9/27/96
	5915093	6/22/99	BERLIN ET AL	1395/200		4/24/97
	5937394	8/10/99	WONG ET AL	1705/26		11/17/97
	5933498	8/3/99	SCHNECK ET AL	1380/4		11/5/97
	5903880	5/11/99	BIFFAR	1705/34		7/19/96
	5903651	5/11/99	KOCHER	1380/25		5/14/96
	5834277	3/18/99	KHOSLA	1705/14		5/1/95
	5960083	2/28/99	MICALI	1380/23		3/24/97

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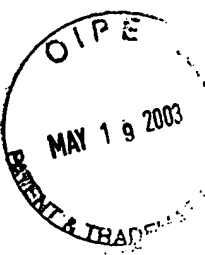
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL	PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE (mm/dd/yyyy)
P/S	5963924	10/5/99	WILLIAMS, ETAL	1705/40		4/26/96
	5996076	11/30/99	ROWNEY, ETAL	1713/201		2/14/97
	6016484	11/18/00	WILLIAMS, ETAL	1705/39		4/26/96
	6018724	1/25/00	ARENT	1705/44		6/30/97
	6021202	2/1/00	ANDERSON, ETAL	1380/25		12/19/97
	6035402	3/7/00	VAETH, ETAL	1713/201		11/20/96
	6044978	4/11/00	SMORODINSKY	1705/40		7/22/97
	6049787	4/11/00	TAKAHASHI, ETAL	1705/44		3/30/98
	6058381	5/2/00	NELSON	1705/40		10/30/97
	6061448	5/9/00	SMITH, ETAL	1380/21		4/1/97
✓	5987132	11/16/99	ROWNEY	1380/24		6/17/96

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